

IN THE CLAIMS:

1. (Currently Amended) An Electrical electrical switching device comprising[:]

[-] At least one electrical contact able to be kept in a stable position by magnetic means,  
~~comprising which contact comprises:~~

[-] ~~at least~~ a first part comprising ~~at least~~ a first magnetizable element and a first contact zone associated with said magnetizable element,

[-] ~~at least~~ a second moveable part comprising ~~at least~~ a ~~second~~ first magnetic element and a second contact zone associated with said ~~second~~ first magnetic element, said ~~the~~ second moveable part having ~~at least~~ a first stable position ~~to keep wherein~~ a first electrical contact is kept closed between the first and second contact zones and a second stable position ~~to keep wherein~~ said first electrical contact is kept open, and

[-] electromagnetic actuating means acting on the second moveable part ~~to make for causing~~ the latter to change position and comprising ~~at least~~ a first electromagnetic coil wound onto said ~~at least~~ a first magnetizable element of the first part ~~to act in attraction or repulsion on at least for~~ attracting or repelling a ~~second~~ first magnetic element of the second moveable part and ~~to perform a change of~~ for changing the stable state of said moveable part,

the first magnetizable element or ~~second~~ the first magnetic element comprising ~~at least~~ one a permanent magnetization part located in proximity to a contact zone ~~to keep for keeping~~

the first electrical contact closed and ~~exert~~ for exerting a contact pressure between the first and second contact zones by a magnetic attraction exerted directly between the first magnetizable element and ~~the second-first magnetic elements element~~ when the movable part is in its first stable position.

2. (Currently Amended) ~~The switching~~ Switching device according to claim 1, wherein the electromagnetic actuating means comprise ~~at least~~ a second electromagnetic coil wound onto ~~at least a third~~ second magnetizable element of the first part ~~to act in attraction or repulsion on for attracting or repelling at least a second the first magnetic element of the second moveable part and to perform a change of~~ for changing the stable state of said second movable part.

3. (Currently Amended) ~~The switching~~ Switching device according to claim 2, wherein the first and second electromagnetic coils ~~are designed to be controlled~~ controllable by electrical pulses to generate reverse magnetic fields ~~performing a repulsion and an attraction to make for changing~~ the stable position of the second movable part change between a first and a second stable ~~position~~ positions closing at least one electrical contact between a contact zone of the first part and a contact zone of the second movable part.

4. (Currently Amended) ~~The switching~~ Switching device according to claim 2, wherein the first and second electromagnetic coils are ~~designed to be controlled~~ controllable by electrical pulses to generate magnetic fields of the same direction ~~performing two repulsions to position for positioning~~ the second movable part in a third stable position ~~where~~ wherein the contact zones of the second movable part are not in electrical contact with the contact zones of the first part.

5. (Currently Amended) The switching ~~Switching~~ device according to claim 1, wherein the first part comprises a ~~third~~ second magnetizable element ~~to keep for keeping~~ the second movable part in the second stable condition.
6. (Currently Amended) The switching ~~Switching~~ device according to claim 1, wherein the second movable part comprises at least one permanent magnet ~~arranged~~ located in proximity to a contact zone.
7. (Currently Amended) The switching ~~Switching~~ device according to claim 1, wherein the second movable part ~~is composed of~~ comprises a material comprising a mainly permanent magnetization part.
8. (Currently Amended) The switching ~~Switching~~ device according to claim 1, wherein the permanent magnetization part ~~or the permanent magnet have~~ has a magnetic induction greater than 1 tesla.
9. (Currently Amended) The switching ~~Switching~~ device according to claim 1, wherein the second movable part has an elongate shape, is able to pivot, and comprises at least one contact zone and one magnetic attraction zone towards at least one end thereof.
10. (Currently Amended). The switching ~~Switching~~ device according to claim 9, wherein the second movable part comprises at least one contact zone at a first end thereof and at least one permanent magnet ~~at a first end and~~ at a second end thereof.

11. (Currently Amended) The switching ~~Switching~~ device according to claim 1, wherein the second movable part ~~has a~~ is flexible, constitution is able to be fixed by a point situated in a central zone thereof, and comprises at least one contact zone and one magnet towards at least one end thereof.

12. (Currently Amended) The switching ~~Switching~~ device according to claim 11, wherein the second movable part comprises at least one opening ~~to a~~ in said central zone.

13. (Currently Amended) The switching ~~Switching~~ device according to claim 1, wherein:

[-]the first part comprises the first magnetizable element associated with a first contact zone and a ~~third~~ second magnetizable element associated with a third contact zone, and

[-]the second movable part comprises a second contact zone towards a first end designed to be in contact with the first contact zone of the first part, and a fourth contact zone towards a second end designed to be in contact with the third contact zone of the first part, so that when in a first stable position of the movable part, the first and second contact zones ~~are maintained to~~ form a closed contact and the third and fourth contact zones form an open contact, and in a second stable position of the movable part, the third and fourth contact zones ~~are maintained to~~ form a closed contact and the first and second contact zones form an open contact.

14. (Currently Amended) The switching ~~Switching~~ device according to claim 13, wherein the first, second, third[,], and fourth contact zones are electrically connected to electrical connection means.

15. (Currently Amended) The switching ~~Switching~~ device according to claim 13, wherein the second movable part comprises a first permanent magnet towards the first end ~~thereof to operate~~ for operating in conjunction with the first magnetizable element of the first part, and a second permanent magnet towards the second end ~~thereof to operate~~ for operating in conjunction with the ~~third~~ second magnetizable element of the first part.

16. (Currently Amended) The switching ~~Switching~~ device according to claim 13, comprising maintaining means ~~to keep~~ for keeping the second movable part in a third stable position wherein both the contact formed by the first and second contact zones and the contact formed by the third and fourth contact zones are open.

17. (Currently Amended) The switching ~~Switching~~ device according to claim 16, wherein the maintaining means comprise a support element ~~in the form of~~ which includes a flat part ~~arranged~~ located on the first part ~~to receive~~ for receiving a first side of the second movable part, and pressure means ~~to keep~~ for keeping a central zone of the second movable part ~~against~~ in contact with said support element.

18. (Currently Amended). The switching ~~Switching~~ device according to claim 17, wherein the pressure means ~~are formed by~~ is a spring.

19. (Currently Amended) The switching ~~Switching~~ device according to claim 17, wherein the pressure means ~~are formed by~~ comprise a third permanent magnet and a ~~fourth~~ third magnetizable element ~~arranged~~ located on the support element and on the central zone of the movable part.

20. (Currently Amended) ~~The switching~~ Switching device according to claim 1, comprising ~~manual or mechanical~~ actuating means acting on the second movable part ~~to make~~ for causing it to change stable state.

21. (Currently Amended) ~~The switching~~ Switching device according to claim 1, wherein the second movable part ~~has a~~ is flexible ~~constitution~~, is able to be fixed by a point situated in a central zone, and comprises at least one contact zone and a magnet ~~with~~ having two ends ~~to form~~ for forming two contacts with contact zones of magnetizable elements of the first part, said two contacts capable of being ~~able to be~~ closed simultaneously.

22. (Currently Amended) ~~The switching~~ Switching device according to claim 1, wherein said at least one ~~magnetic or magnetizable element enables~~ is sufficiently electrically conductive to permit an electric current designed to flow in at least one electrical contact to be conducted through ~~the material that constitutes~~ it.

23. (Currently Amended) ~~An Electromagnetic~~ electromagnetic relay ~~with~~ having at least two stable states comprising ~~at least a~~ first and a second electrical contact inputs and control inputs, ~~comprising~~ at least one switching device according to claim 1, the first electrical contact input being connected to the second movable part, the second electrical contact input being connected to a first contact zone of the first part, and the control inputs being connected to at least a first electromagnetic coil ~~arranged~~ located on at least a first magnetizable element of the first part.

24. (Currently Amended) A Relay relay according to claim 23, comprising at least a second electromagnetic coil connected to the control inputs and ~~arranged~~ located on at least a ~~third~~ second magnetizable element of the first part.

25. (Currently Amended) A Relay relay according to claim 23, having at least three stable states and comprising a third contact zone connected to a third contact input, and means for keeping the second movable part in a third stable position ~~where~~ wherein the electrical contacts between the first, second, and third contact zones are open, the first and second electromagnetic coils ~~being designed to be commanded in attraction and repulsion~~ for attracting and repelling to establish an electrical contact and ~~in for double repulsion~~ repelling to open the contacts.

26. (Currently Amended) An Electrical electrical apparatus comprising at least a first and a second electrical contact inputs, comprising:

[-]at least one switching device according to claim 1 ~~with~~ having at least two stable positions, the first electrical contact input being connected to the second movable part, the second electrical contact input being connected to a first contact zone of the first part, and

[-]a control circuit connected to at least a first electromagnetic coil ~~arranged~~ located on a first magnetizable element of the first part.

27. (Currently Amended) An Electrical electrical apparatus according to claim 26, wherein the switching device comprises at least a second electromagnetic coil connected to the control circuit and ~~arranged~~ located on at least a ~~third~~ second magnetizable element of the first part.

28. (Currently Amended) ~~An Electrical~~ electrical apparatus according to claim 26, wherein the switching device has three stable states and comprises a third contact zone connected to a third contact input and means for keeping the second movable part in a third stable position ~~where~~ wherein the electrical contacts between the first, second, and third contact zones are open, the first and second electromagnetic coils ~~being designed to be commanded in attraction and repulsion to establish at least one electrical contact and in double repulsion for attracting and repelling~~ to open the contacts.

29. (Currently Amended) ~~An Electrical~~ electrical apparatus according to claim 26, comprising ~~manual or mechanical~~ actuating means for acting on the second moving part to make it change stable state.

30. (Currently Amended) ~~An Electrical~~ electrical apparatus according to claim 26, wherein the control circuit comprises at least one control input ~~able to receive~~ for receiving control signals.

31. (Currently Amended) ~~An Electrical~~ electrical apparatus according to claim 30, wherein the control signals applied to the input ~~can be~~ are selected from the group consisting of polarization signals, pulse duration signals, ~~and/or~~ and number of pulse signals.

32. (Currently Amended) ~~An Electrical~~ electrical apparatus according to claim 26, wherein the control circuit comprises remote control input by communication bus ~~to receive~~ for receiving control signals.



33. (Currently Amended) An ~~Electrical~~ electrical apparatus according to claim 26, wherein the control circuit comprises remote control receipt means ~~to receive~~ for receiving control signals.

34. (Currently Amended) An ~~Electrical~~ electrical apparatus according to claim 26, wherein the control circuit comprises processing means ~~to process~~ for processing control signals and ~~to control~~ for controlling the electromagnetic coils according to said signals.

35. (Currently Amended) An ~~Electrical~~ electrical apparatus according to claim 34, wherein the processing means ~~perform~~ is for performing at least one function selected from the group consisting of remote control switch, ~~time, timer and/or~~ and controlled switch functions.